



CT-X430M

YU,YZ,YH(ST)

CT-X4300M

YL(ST)

CT-R430M

YZ(ST)

CT-R420

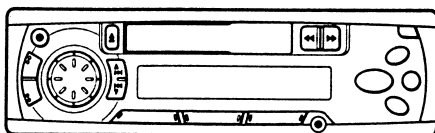
YZ(ST)

CT-R410

YZ(ST)

CT-RV425

YZ(ST)



SERVICE MANUAL

STEREO CAR CASSETTE RECEIVER

BASIC TAPE MECHANISM : CDS-363AG1-A

This Service Manual is the "Revision Publishing" and replaces "Simple Manual"
CT-X430 YU(ST)(S/M Code No.09-003-339-1T1),
CT-R430M YZ(ST)/R410 YZ(ST)/R420 YZ(ST)/X430 YZ(ST),YH(ST)/X4300 YL(ST)
(S/M Code No.09-003-339-2T2).

aiwa

S/M Code No. 09-003-339-1R1

REVISION
DATA

SPECIFICATIONS

RADIO SECTION

(FM)

Frequency Range:	87.5 MHz–108 MHz (100-kHz steps) 87.5 MHz-108 MHz (50-kHz steps)
Usable Sensitivity:	12.7 dBf
50 dB Quieting Sensitivity:	17.2 dBf
IF Rejection:	80 dB
Frequency Response:	30 Hz-15,000 Hz
S/N Ratio:	63 dB
Stereo Separation:	35 dB at 1 kHz
Alternate Channel Selectivity:	70 dB
Capture Ratio:	3 dB

(AM(MW)) [YU, YL]

Frequency Range:	530 kHz–1,710 kHz (10-kHz steps) 531 kHz–1,602 kHz (9-kHz steps)
Usable Sensitivity:	30 µV (30 dB)

(MW) [YZ]

Frequency Range:	531 kHz–1,620 kHz (9-kHz steps) 530 kHz–1,710 kHz (10-kHz steps)
Usable Sensitivity:	30 µV (30 dB)

(LW) [YZ]

Frequency Range:	144 kHz–288 kHz (1-kHz/9-kHz steps)
Usable Sensitivity:	30 µV (30 dB)

TAPE SECTION

Tape Speed:	4.8 cm/sec. (1 ⁷ / ₈ ips)
S/N Ratio:	50 dB
Frequency Response:	40 Hz–14,000 Hz
Stereo Separation:	40 dB
FF/REW Time:	100 sec. (C-60)

AUDIO SECTION

Max. Power Output:	40 W x 4 channels [YL, YZ] 35 W x 4 channels [YU]
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AUX IN input

Input sensitivity (load impedance)	
AUX:	300 mV (10 kΩ)

GENERAL

Power-Supply Voltage:	14.4 V (11 to 16 V allowable), DC, negative ground
Load Impedance:	4Ω
Tone Control:	Bass ± 10 dB at 100 Hz Treble ± 10 dB at 10 kHz
Preamp Output Voltage (load impedance):	2.2 V (10 kΩ)
Installation size:	182(W) x 53(H) x 155(D) mm (7 ¹ / ₄ (W) x 2 ¹ / ₈ (H) x 6 ¹ / ₈ (D) inches)

• Design and specifications are subject to change without notice.

ACCESSORIES LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-KTF-904-010	IB, YH (E CK CH) 430M<G>		10	88-KT1-247-010		S-SCREW, HEXAGON
1	8A-KTF-902-010	IB, YL (3L) 430M<H>		11	88-KT1-250-010		S-SCREW, THIN HEAD+2.6-4 BLK
1	8A-KTF-901-010	IB, YU (3L) 430M<E>		12	87-B10-143-010		UT1+5-15 W/O SLOT
1	8A-KTF-903-010	IB, YZ (9L) 430M<F>		13	87-B10-144-010		W, 5.2-10-0.5
1	8A-KTA-901-010	IB, YZ (9L) R430M, 420, RV425<A, B, C, D>		14	87-B10-145-010		W-SPR, 5.3-8.5-1.5
2	8A-KT5-908-010	IB, INST, YH, Y (E CK CH A) -A<G>					
2	8A-KT5-902-010	IB, INST, YU, YL (3L, P) <E, H>					
2	8A-KT3-902-010	IB, INST, YZ (9L) -A<A, B, C, D, F>					
3	86-KT1-237-010	HLDR, REAR MTG					
4	8Z-KT1-231-010	HLDR, HALF -T					
5	8Z-KT1-625-010	CONN ASSY, 16P SOC016<E, G, H>					
6	8Z-KT1-030-010	CASE, DFP -T					
7	8Z-KT1-232-010	KEY, REMOVE -T					
8	87-B10-141-010	NUT, 5 TYPE-2					
9	8Z-KT1-251-010	S-SCREW, 5*6 TH+ TAPPING ST					

TYPE	MODEL NAME	SUFFIX
A	CT-R430M	YZ
B	CT-R410	YZ
C	CT-R420	YZ
D	CT-RV425	YZ
E	CT-X430M	YU
F	CT-X430M	YZ
G	CT-X430M	YH
H	CT-X4300M	YL

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C202	87-010-178-080		CHIP CAP 1000P
	8Z-KT1-622-010		C-IC,LC75374E	C203	87-010-498-040		CAP,E 10-16 GAS
	8Z-KTG-622-010		IC,TA8259H	C204	87-010-498-040		CAP,E 10-16 GAS
	87-A21-531-030		C-IC,UPD178006AGC-538<E,F,G,H>	C205	87-010-555-040		CAP,E 100-10 GAS
	87-A21-530-030		C-IC,UPD178018AGC-555<A,B,C,D>	C206	87-010-555-040		CAP,E 100-10 GAS
	88-KT1-608-010		C-IC,LC75854W	C207	87-010-198-080		CAP, CHIP 0.022
				C208	87-010-198-080		CAP, CHIP 0.022
	88-KT1-607-080		C-IC,SAA6579T<A,B,C,D>	C209	87-010-494-040		CAP,E 1-50 GAS
	87-A21-191-010		IC,KIA6225S	C210	87-010-494-040		CAP,E 1-50 GAS
				C211	87-010-555-040		CAP,E 100-10 GAS
TRANSISTOR				C212	87-010-380-080		CAP, ELECT 47-16V
	89-423-953-010		TR,2SD2395F	C213	87-010-494-040		CAP,E 1-50 GAS
	87-026-576-080		C-TR,DTC343TK	C214	87-010-494-040		CAP,E 1-50 GAS
	87-A30-468-040		C-TR,KRC102S	C215	87-010-555-040		CAP,E 100-10 GAS
	87-A30-470-040		C-TR,KTC3875SY-RTK	C216	87-A11-129-080		CAP, CHIP 5600P
	87-A30-471-040		C-TR,KTA1504SY-RTK	C217	87-A11-129-080		CAP, CHIP 5600P
				C301	87-010-401-080		CAP, ELECT 1-50V
	87-A30-467-040		C-TR,KRA111S-RTK	C302	87-010-401-080		CAP, ELECT 1-50V
	87-A30-295-010		TR,KRA226M	C303	87-010-178-080		CHIP CAP 1000P
	87-A30-473-080		TR,KRC102M-AT	C304	87-010-178-080		CHIP CAP 1000P
	87-A30-487-080		TR,KRC111M-AT				
	8Z-KTH-627-080		TR,KTA1273Y	C401	87-010-494-040		CAP,E 1-50 GAS<A,E,F,G,H>
				C402	87-010-494-040		CAP,E 1-50 GAS<A,E,F,G,H>
	87-A30-476-010		TR,KTA1046Y	C501	87-010-494-040		CAP,E 1-50 GAS
	87-A30-475-080		TR,KRA104M-AT	C502	87-010-494-040		CAP,E 1-50 GAS
	8Z-KTH-626-080		TR,KTC3203Y	C503	87-010-494-040		CAP,E 1-50 GAS
	8Z-KTH-623-080		TR,KTA1267Y<A,B,C,D,F>				
	87-A30-469-040		C-TR,KRC111S-RTK	C504	87-010-494-040		CAP,E 1-50 GAS
				C505	87-010-184-080		CHIP CAPACITOR 3300P(K)
	87-A30-472-040		C-TR,KRA226S-RTK	C506	87-010-184-080		CHIP CAPACITOR 3300P(K)
				C507	87-010-198-080		CAP, CHIP 0.022
				C508	87-010-198-080		CAP, CHIP 0.022
DIODE				C509	87-010-498-040		CAP,E 10-16 GAS
	87-020-465-080		DIODE,1SS133 (110MA)	C510	87-010-498-040		CAP,E 10-16 GAS
	87-017-932-080		ZENER,MTZJ6.2B	C511	87-016-083-080		C-CAP,S 0.15-16 RK
	87-001-783-080		DIODE,1N4002	C512	87-016-083-080		C-CAP,S 0.15-16 RK
	87-A40-830-040		DIODE,KDS226-RTK	C513	87-016-083-080		C-CAP,S 0.15-16 RK
	87-070-022-010		DIODE,1N5402 (RECT)				
				C514	87-016-083-080		C-CAP,S 0.15-16 RK
	87-070-334-080		ZENER,MTZJ10B	C515	87-010-498-040		CAP,E 10-16 GAS
	87-017-931-080		ZENER,MTZJ5.6B	C516	87-010-498-040		CAP,E 10-16 GAS
	87-A40-337-080		ZENER,MTZJ 6.8B	C517	87-010-553-040		CAP,E 47-16 GAS
	87-A40-523-080		ZENER,MTZJ9.1B<E>	C518	87-010-498-040		CAP,E 10-16 GAS
	87-A40-649-080		ZENER,MTZJ11.0A<EXCEPT E>				
				C519	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A40-509-080		ZENER,MTZJ6.8C	C520	87-010-494-040		CAP,E 1-50 GAS
	87-A40-620-080		ZENER,MTZJ6.2A	C521	87-010-494-040		CAP,E 1-50 GAS
	87-070-136-080		ZENER,MTZJ5.1B<B,C,D>	C522	87-010-494-040		CAP,E 1-50 GAS
	87-020-585-080		CHIP-ZENER,02CZ6.2Y	C523	87-010-494-040		CAP,E 1-50 GAS
				C524	87-010-494-040		CAP,E 1-50 GAS<A,B,C,D>
				C524	87-010-553-040		CAP,E 47-16 GAS<E,F,G,H>
				C525	87-012-141-080		CAP,CHIP 0.22
				C526	87-012-141-080		CAP,CHIP 0.22
				C527	87-010-178-080		CHIP CAP,1000P
				C601	87-016-083-080		C-CAP,S 0.15-16 RK
				C602	87-016-083-080		C-CAP,S 0.15-16 RK
				C603	87-016-083-080		C-CAP,S 0.15-16 RK
				C604	87-016-083-080		C-CAP,S 0.15-16 RK
				C605	87-010-180-080		C-CER 1500P
				C606	87-010-180-080		C-CER 1500P
				C607	87-010-180-080		C-CER 1500P
				C608	87-010-180-080		C-CER 1500P
				C609	87-010-498-040		CAP,E 10-16 GAS
				C610	8Z-KT1-633-090		CAP,E 3300U-16 PW
				C611	87-010-196-080		CHIP CAPACITOR,0.1-25
				C612	87-010-552-040		CAP,E 22-16 GAS
				C613	87-010-490-040		CAP, ELECT 0.1-50
				C701	87-010-490-040		CAP, ELECT 0.1-50
				C702	87-010-555-040		CAP,E 100-10 GAS
				C703	87-010-196-080		CHIP CAPACITOR,0.1-25
				C704	87-010-198-080		CAP, CHIP 0.022
				C705	87-010-315-080		C-CAP,S 27P-50 CH
				C706	87-010-314-080		C-CAP,S 22P-50V
				C707	87-010-196-080		CHIP CAPACITOR,0.1-25
MAIN C.B							
C101	87-010-178-080		CHIP CAP 1000P				
C102	87-010-178-080		CHIP CAP 1000P				
C103	87-010-186-080		CAP,CHIP 4700P				
C104	87-010-490-040		CAP, ELECT 0.1-50				
C105	87-010-498-040		CAP,E 10-16 GAS				
C106	87-010-198-080		CAP, CHIP 0.022				
C107	87-010-494-040		CAP,E 1-50 GAS				
C108	87-010-197-080		CAP, CHIP 0.01 DM				
C109	87-010-196-080		CHIP CAPACITOR,0.1-25				
C110	87-010-553-040		CAP,E 47-16 GAS				
C111	87-010-194-080		CHIP CAPACITOR,0.047				
C112	87-010-213-080		CAP, CHIP 0.015<EXCEPT E>				
C112	87-010-198-080		CAP, CHIP 0.022<E>				
C113	87-010-213-080		CAP, CHIP 0.015<EXCEPT E>				
C113	87-010-198-080		CAP, CHIP 0.022<E>				
C114	87-010-196-080		CHIP CAPACITOR,0.1-25				
C115	87-010-196-080		CHIP CAPACITOR,0.1-25				
C116	87-010-197-080		CAP, CHIP 0.01 DM				
C117	87-010-197-080		CAP, CHIP 0.01 DM				
C120	87-010-196-080		CHIP CAPACITOR,0.1-25				
C121	87-010-197-080		CAP, CHIP 0.01 DM				
C201	87-010-178-080		CHIP CAP 1000P				

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C708	87-010-197-080		CAP, CHIP 0.01 DM	LCD1001	8A-KTF-610-010		LCD,AKT-10/11/15 (2COLOR)
C709	87-010-178-080		CHIP CAP 1000P				<A,C,F,G,H>
C710	87-010-178-080		CHIP CAP 1000P	LCD1001	8A-KTB-610-010		LCD,AKT-11 (NO COLOR) <B,D>
C711	87-010-322-080		C-CAP,S 100P-50 CH	LCD1001	8A-KTF-611-010		LCD,AKT-15 (1 COLOR) <E>
C712	87-016-039-090		CAP,E 0.022-5.5	LED1001	87-017-827-070		C-LED,SEC 1201C RED
C713	87-010-197-080		CAP, CHIP 0.01 DM	LED1002	87-017-827-070		C-LED,SEC 1201C RED
C714	87-010-197-080		CAP, CHIP 0.01 DM	LED1003	87-017-827-070		C-LED,SEC 1201C RED
C741	87-016-526-080		C-CAP,S 0.47-16 BK	LED1004	87-A40-813-040		C-LED,SEC1E01C BLUE
C742	87-016-526-080		C-CAP,S 0.47-16 BK	LED1005	87-A40-813-040		C-LED,SEC1E01C BLUE
C743	87-016-526-080		C-CAP,S 0.47-16 BK	LED1006	87-A40-813-040		C-LED,SEC1E01C BLUE
C744	87-016-669-080		C-CAP,S 0.1-25 K B	PL1001	8A-KT7-655-010		LAMP,9V-50MA<EXCEPT D>
C801	87-010-196-080		CHIP CAPACITOR,0.1-25	PL1002	8A-KT7-655-010		LAMP,9V-50MA<EXCEPT D>
C802	87-010-182-080		C-CAP,S 2200P-50 B	S1001	87-036-251-080		SW,T CT 6X3.5 160
C804	87-010-196-080		CHIP CAPACITOR,0.1-25	S1002	87-036-251-080		SW,T CT 6X3.5 160
C805	87-010-263-080		CAP,E 100-10 GAS	S1003	87-036-251-080		SW,T CT 6X3.5 160
C806	87-010-498-040		CAP,E 10-16 GAS	S1004	87-A90-001-080		C-SW,TACT SKQMAL
C807	87-010-498-040		CAP,E 10-16 GAS	S1005	87-036-251-080		SW,T CT 6X3.5 160
C808	87-010-198-080		CAP, CHIP 0.022	S1006	87-036-251-080		SW,T CT 6X3.5 160
C810	87-010-198-080		CAP, CHIP 0.022	S1007	87-A90-001-080		C-SW,TACT SKQMAL
C811	87-010-553-040		CAP,E 47-16 GAS	S1008	87-036-251-080		SW,T CT 6X3.5 160
C812	87-010-498-040		CAP,E 10-16 GAS	S1009	87-036-251-080		SW,T CT 6X3.5 160
C816	87-010-553-040		CAP,E 47-16 GAS	S1010	87-036-251-080		SW,T CT 6X3.5 160
C901	87-010-494-040		CAP,E 1-50 GAS<G,H>	S1011	87-A90-001-080		C-SW,TACT SKQMAL
C902	87-010-494-040		CAP,E 1-50 GAS<G,H>	S1012	87-A90-001-080		C-SW,TACT SKQMAL
C903	87-010-494-040		CAP,E 1-50 GAS	S1013	87-036-251-080		SW,T CT 6X3.5 160
C904	87-010-494-040		CAP,E 1-50 GAS	S1014	87-036-251-080		SW,T CT 6X3.5 160
C905	87-012-140-080		CAP 470P<G,H>	S1015	87-A90-001-080		C-SW,TACT SKQMAL
C906	87-012-140-080		CAP 470P<G,H>	VR1001	87-A91-597-010		SW,RTRY SIM-026MT
C907	87-012-140-080		CAP 470P	W1001	8A-KT9-611-010		F-CABLE,3P 50MM
C908	87-012-140-080		CAP 470P				
C1101	87-012-149-080		C-CAP,S 30P-50 CH<A,B,C,D>	AUX C.B			
C1102	87-010-315-080		C-CAP,S 27P-50 CH<A,B,C,D>	J1001	87-A61-229-010		JACK,3.5 BLK ST W/SW
C1103	87-010-175-080		CAP 560P<A,B,C,D>				
C1104	87-010-196-080		CHIP CAPACITOR,0.1-25<A,B,C,D>	LED1 C.B			
C1105	87-012-157-080		C-CAP,S 330P-50 CH<A,B,C,D>	LED1007	87-A40-814-080		LED,SEL2E10C BLUE<D>
C1106	87-010-495-040		CAP,E 2.2-50 GAS<A,B,C,D>				
C1107	87-010-197-080		CAP, CHIP 0.01 DM<A,B,C,D>	LED2 C.B			
CN201	87-009-031-010		CONNECTOR, 3P	LED1008	87-A40-814-080		LED,SEL2E10C BLUE<D>
CN202	87-099-408-010		CONN,8P EH V WHT				
CN701	88-KTA-603-010		CONN,15P CAM-B68	HEAD C.B			
C0N801	8Z-KT1-624-010		CONN,16P SOC017<E,G,H>				
CN801	8A-KT1-631-010		CONN ASSY,8P ISO-BLACK-A<A,B,C,D,F>				
CN802	8A-KT1-632-010		CONN ASSY,8P ISO-WHITE-A<A,B,C,D,F>				
AF801	8Z-KC1-621-010		FUSE,15A 32V				
J101	8Z-KT1-614-010		ANT,AW-002				
J401	8A-KC7-620-010		JACK,DIN 13 P SKDS1302<A,E,F,G,H>				
J901	87-A61-225-010		JACK,PIN 2P XR-401<EXCEPT G,H>				
J901	87-A61-224-010		JACK,PIN 4P XR-401<G,H>				
L101	87-003-143-080		COIL 4.7 UH				
L102	8Z-KT1-619-010		COIL,68MH K7-D				
L301	87-003-143-080		COIL 4.7 UH				
L701	87-003-149-080		COIL,47UH				
L801	8Z-KT1-615-010		FLTR,AMORPHOUS -CHOKE				
LED701	87-027-262-010		LEDE,TLR-124 (RED)				
SFR101	87-024-437-080		SFR,100K<A,B,C,D>				
SW701	87-A91-070-010		SW,TACT SKHHLV				
SW702	87-A91-152-010		SW,SL 1-1-2 SSSS212-11-A				
TU101	8A-KC8-620-010		TU UNIT, FAE347-A11<A,B,C,D,F>				
TU101	8A-KC8-621-010		TU UNIT, FAE347-A12<E,G,H>				
X701	87-A70-175-010		VIB,XTAL 4.5MHZ AT-49				
X1101	87-A70-091-010		VIB,XTAL 4.332MHZ CSA-309<A,B,C,D>				

TYPE	MODEL NAME	SUFFIX
A	CT-R430M	YZ
B	CT-R410	YZ
C	CT-R420	YZ
D	CT-RV425	YZ
E	CT-X430M	YU
F	CT-X430M	YZ
G	CT-X430M	YH
H	CT-X4300M	YL

FRONT C.B

C1001	87-010-176-080	C-CAP,S 680P-50 SL
C1002	87-010-194-080	CAP, CHIP 0.047
C1003	87-010-194-080	CAP, CHIP 0.047
C1004	87-010-196-080	CHIP CAPACITOR,0.1-25
CN1001	88-KTA-602-010	CONN,15P CAM-B67

○チップ抵抗部品コード／CHIP RESISTOR PART CODE


チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



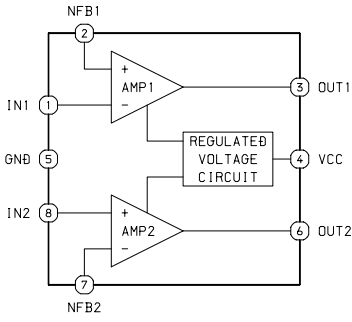
Figure
Value of resistor

チップ抵抗
Chip resistor

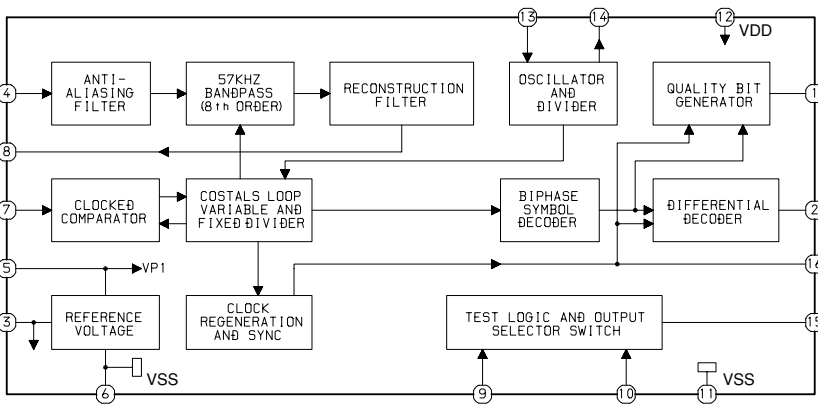
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

IC BLOCK DIAGRAM-1

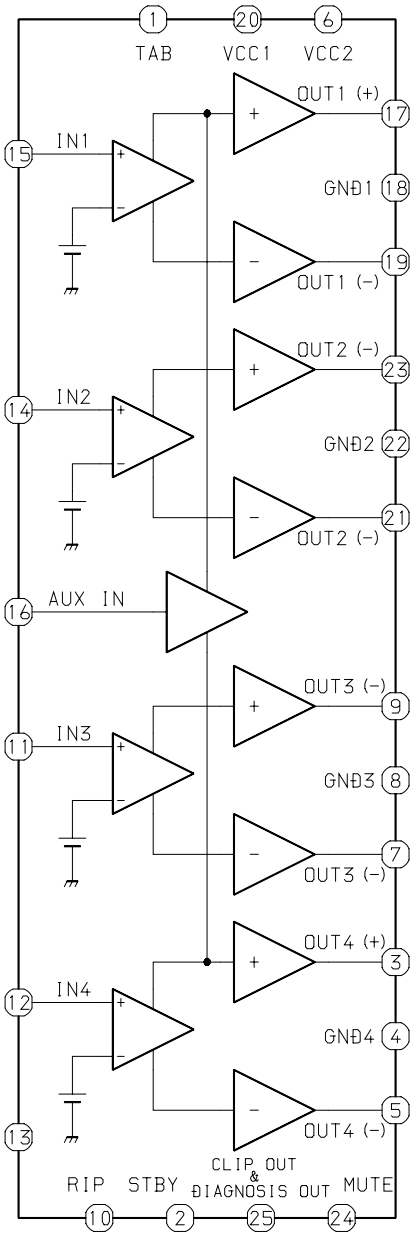
IC, KIA6225S



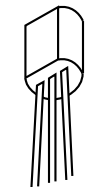
IC, SAA6579T



IC, TA8259H



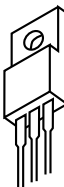
TRANSISTOR ILLUSTRATION



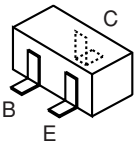
KTC3203



KRA104M
KRA226M
KRC102M
KRC111M
KTA1267
KTA1273

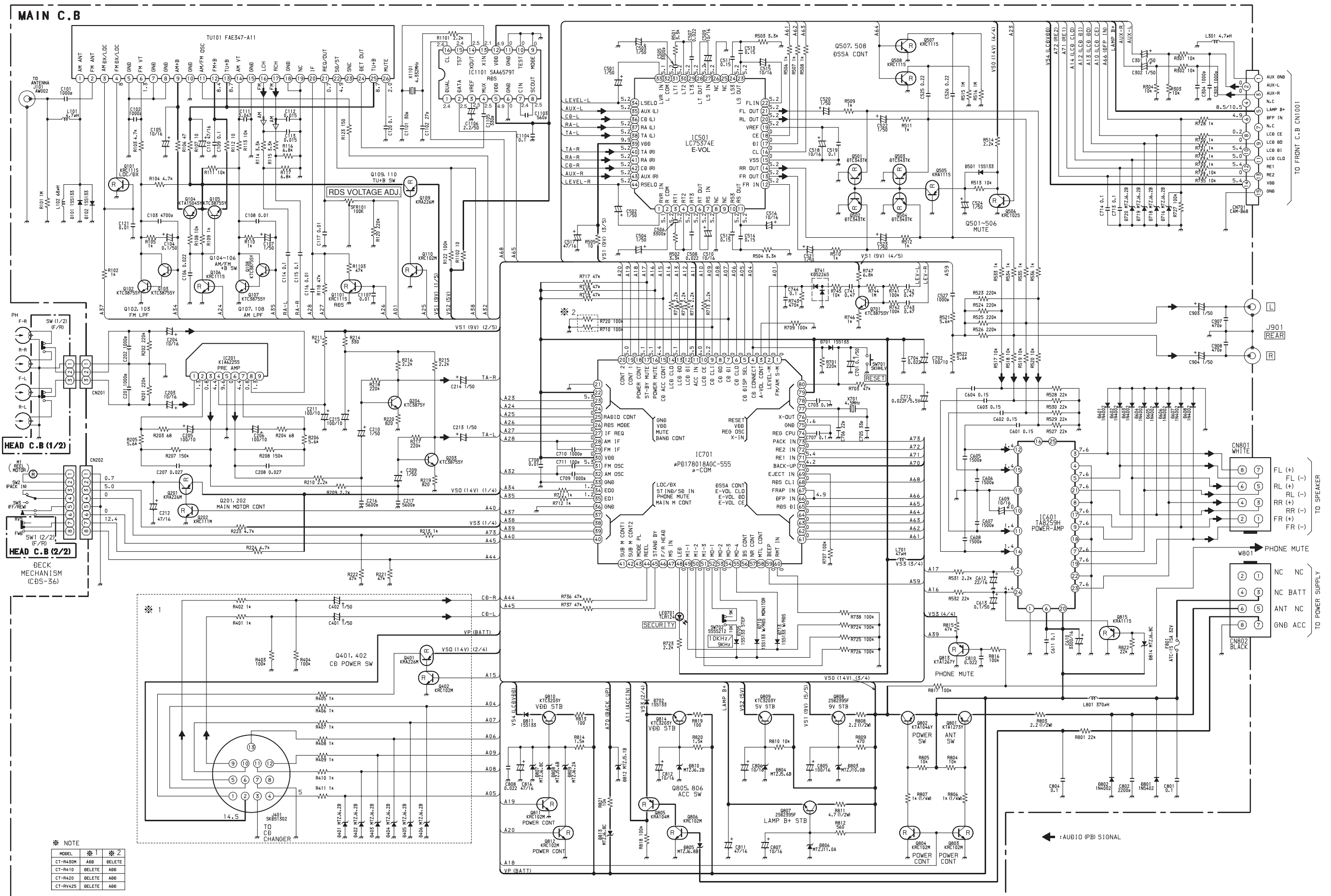


2SD2395
KTA1046

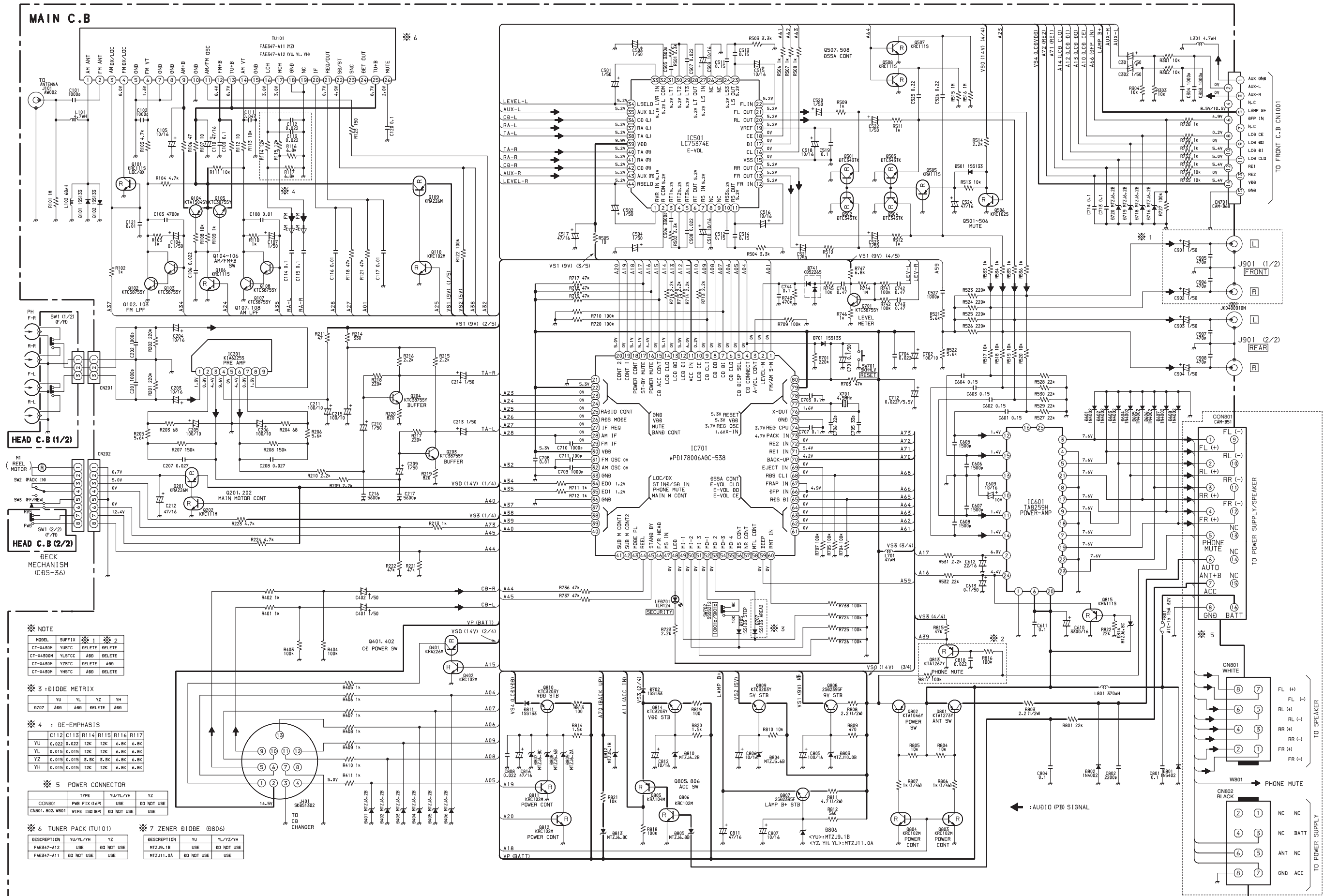


DTC343TK
KRA111S
KRA226S
KRC102S
KRC111S
KTA1504
KTC3875

SCHEMATIC DIAGRAM-1 (MAIN SECTION) [CT-R430M YZ, CT-R410 YZ, CT-R420 YZ, CT-RV425 YZ]

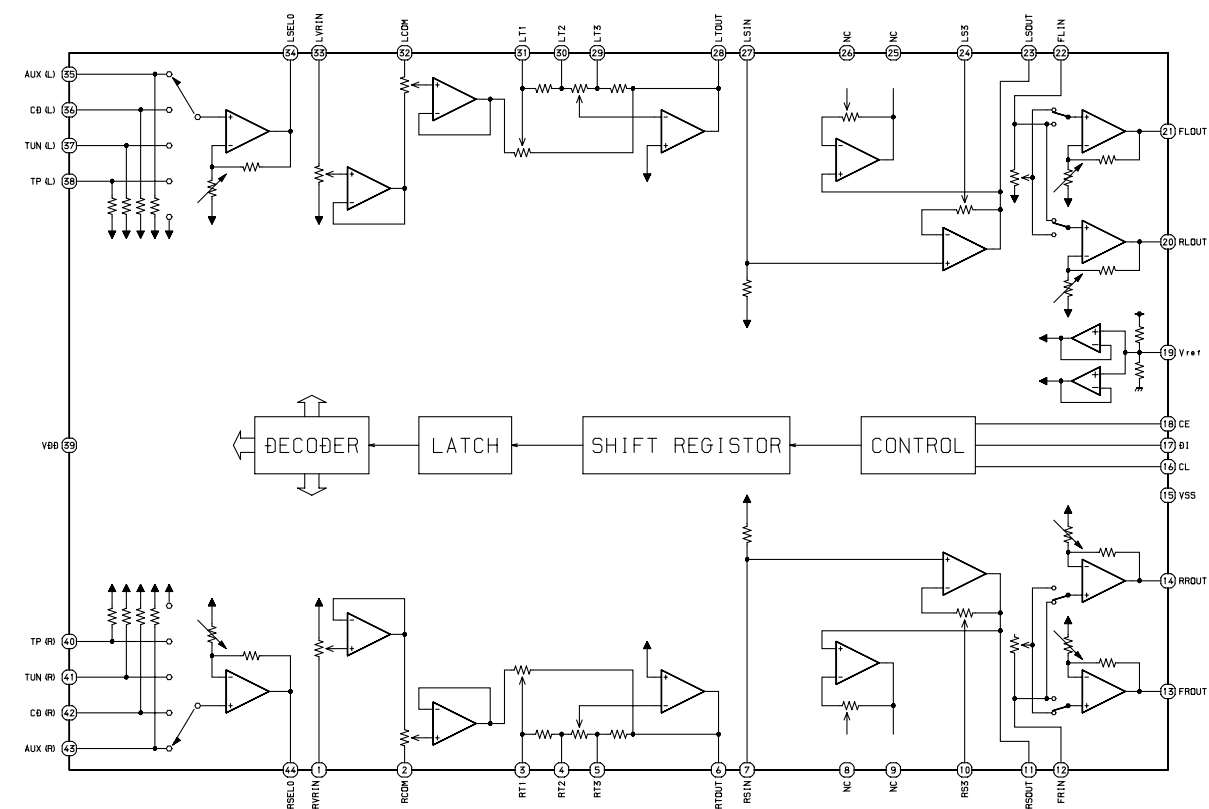


SCHEMATIC DIAGRAM-2 (MAIN SECTION) [CT-X430M YU,YZ, YH, X4300M YL]

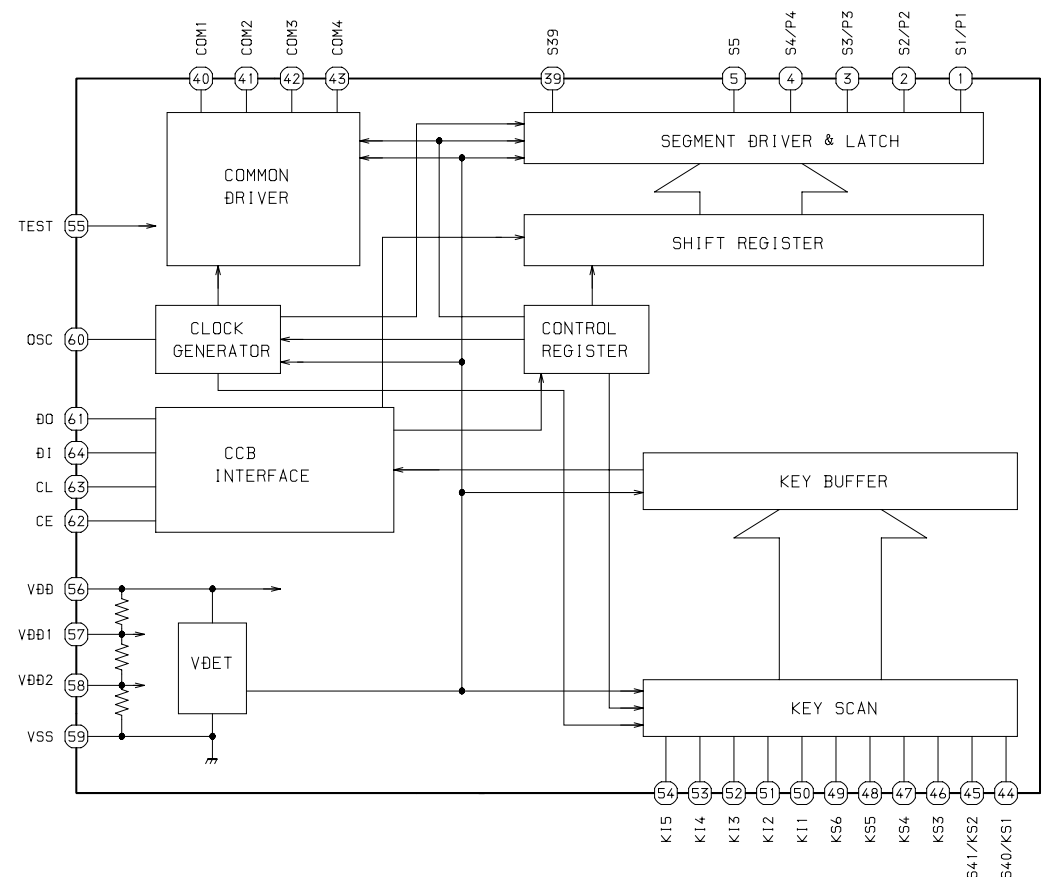


IC BLOCK DIAGRAM-2

IC, LC75374E



IC, LC75854W



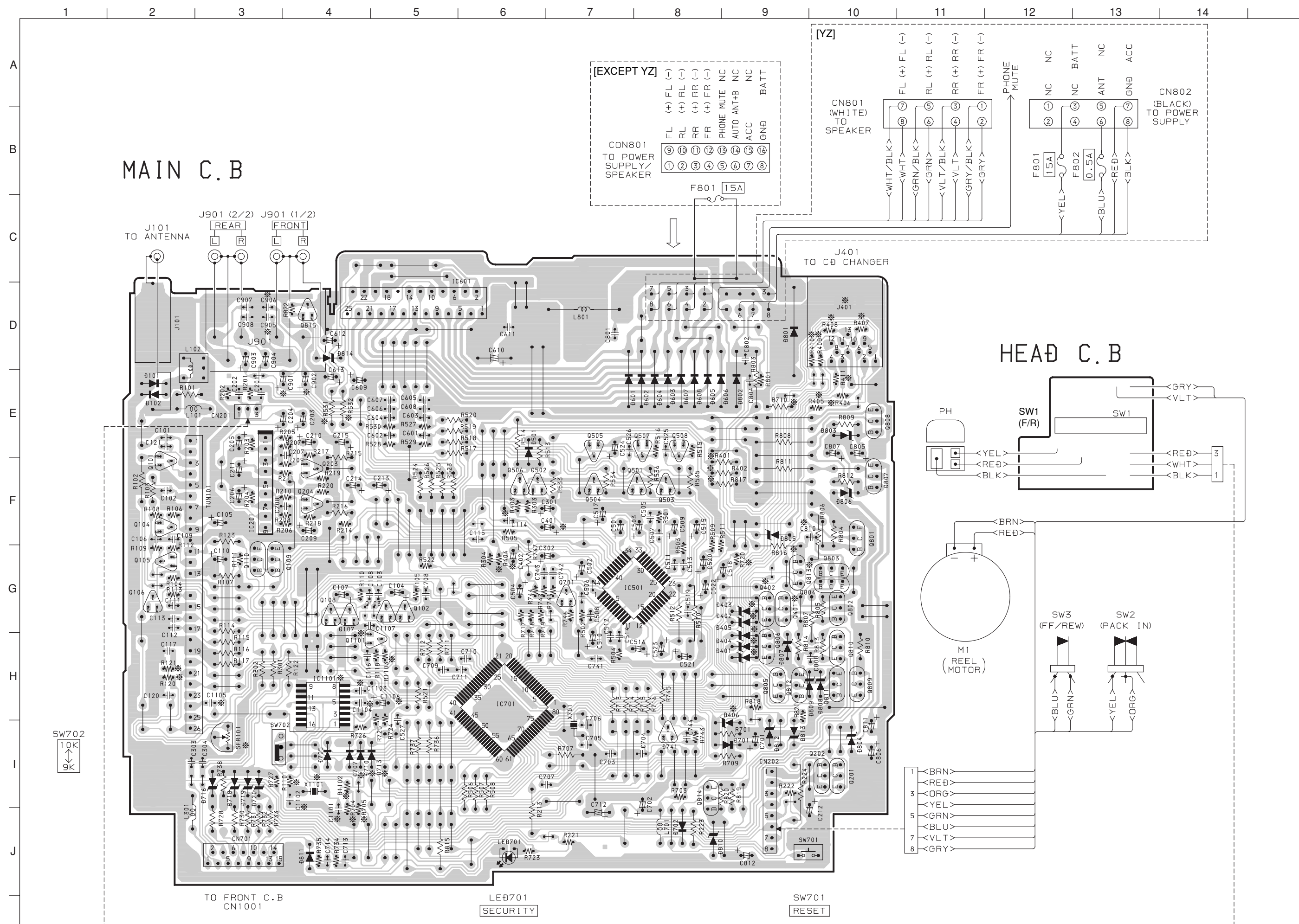
DIFFERENCE TABLE

[This table lists the different components marked with asterisks (※) in the MAIN CB]

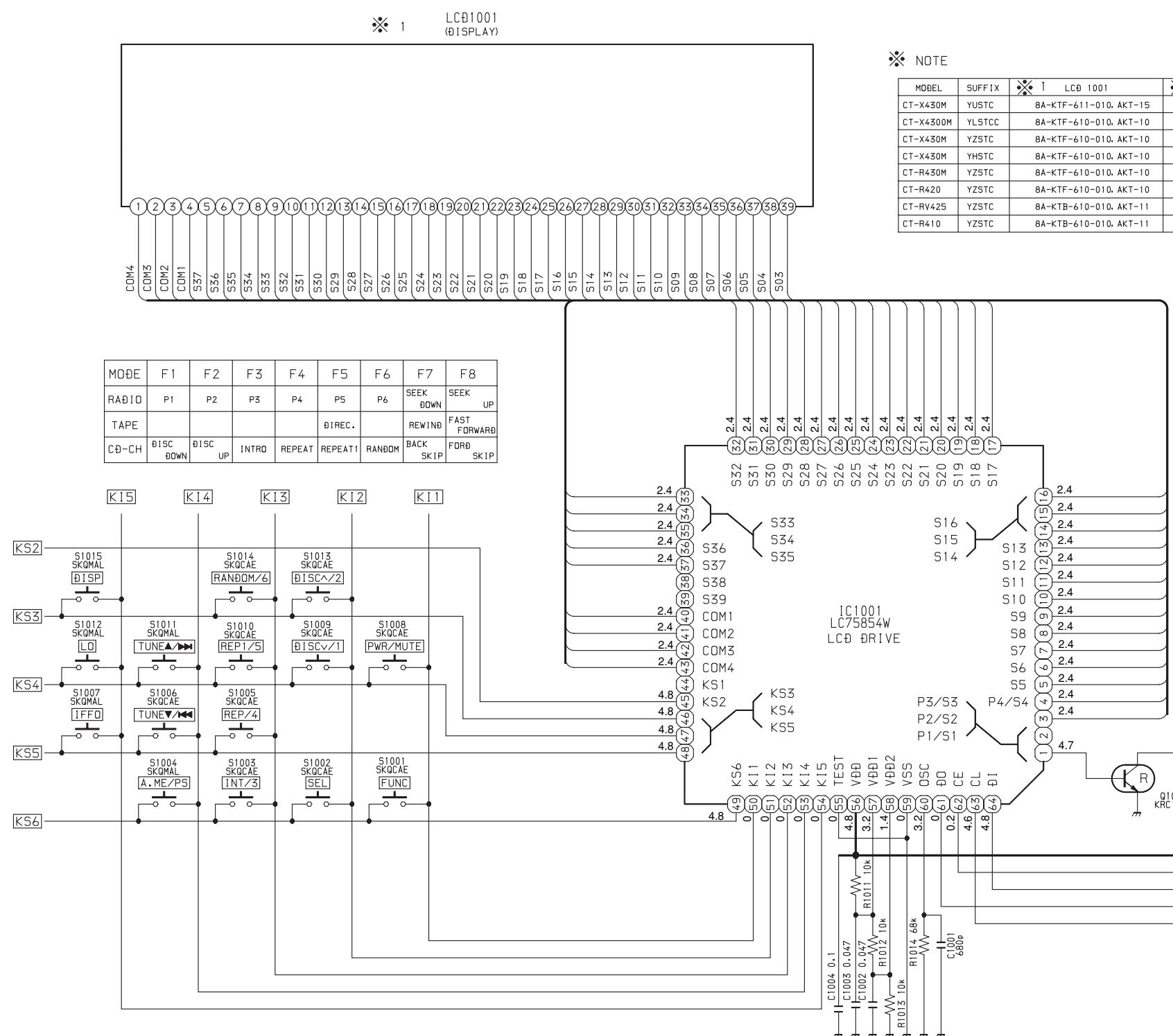
Ref No.	A	B	C	D	E	F	G	H
C401	A				E	F	G	H
C402	A				E	F	G	H
C810	A	B	C	D		F		
C901							G	H
C902							G	H
C905							G	H
C906							G	H
C1101	A	B	C	D				
C1102	A	B	C	D				
C1103	A	B	C	D				
C1104	A	B	C	D				
C1105	A	B	C	D				
C1106	A	B	C	D				
C1107	A	B	C	D				
CON801					E		G	H
CN801	A	B	C	D		F		
CN802	A	B	C	D		F		
D401	A				E	F	G	H
D402	A				E	F	G	H
D403	A				E	F	G	H
D404	A				E	F	G	H
D405	A				E	F	G	H
D406	A				E	F	G	H
D707					E		G	H
D710	A	B	C	D				
D713	A	B	C	D				
IC1101	A	B	C	D				
J401	A				E	F	G	H
Q401	A				E	F	G	H

Ref No.	A	B	C	D	E	F	G	H
Q402	A				E	F	G	H
Q813	A	B	C	D		F		
Q1101	A	B	C	D				
R120	A	B	C	D				
R121					E	F	G	H
R401	A				E	F	G	H
R402	A				E	F	G	H
R403	A				E	F	G	H
R404	A				E	F	G	H
R405	A				E	F	G	H
R406	A				E	F	G	H
R407	A				E	F	G	H
R408	A				E	F	G	H
R409	A				E	F	G	H
R410	A				E	F	G	H
R411	A				E	F	G	H
R531	A	B	C	D				
R532	A	B	C	D				
R704					E	F	G	H
R705					E	F	G	H
R710		B	C	D	E	F	G	H
R720		B	C	D	E	F	G	H
R816	A	B	C	D		F		
R817	A	B	C	D		F		
R1101	A	B	C	D				
R1102	A	B	C	D				
R1103	A	B	C	D				
SFR101	A	B	C	D				
X1101	A	B	C	D				

TYPE	MODEL NAME	SUFFIX
A	CT-R430M	YZ
B	CT-R410	YZ
C	CT-R420	YZ
D	CT-RV425	YZ
E	CT-X430M	YU
F	CT-X430M	YZ
G	CT-X430M	YH
H	CT-X4300M	YL

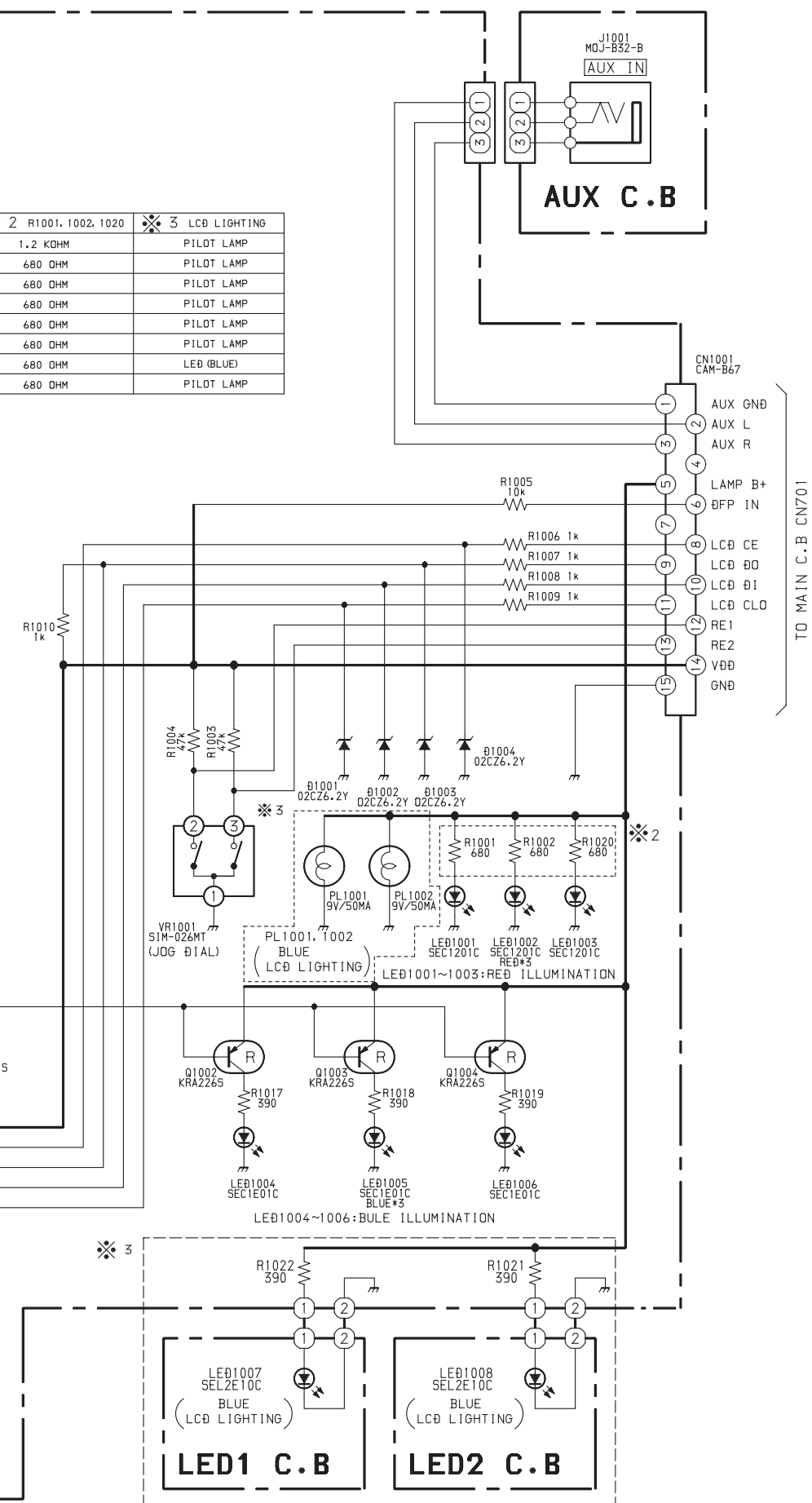


FRONT C.B



✱ NOTE

MODEL	SUFFIX	※ 1 LCD 1001	※ 2 R1001, 1002, 1020	※ 3 LCD LIGHTING
CT-X430M	YUSTC	8A-KTF-611-010, AKT-15	1.2 QOHM	PILOT LAMP
CT-X4300M	YLSTCC	8A-KTF-610-010, AKT-10	680 OHM	PILOT LAMP
CT-X430M	YZSTC	8A-KTF-610-010, AKT-10	680 OHM	PILOT LAMP
CT-X430M	YHSTC	8A-KTF-610-010, AKT-10	680 OHM	PILOT LAMP
CT-R430M	YZSTC	8A-KTF-610-010, AKT-10	680 OHM	PILOT LAMP
CT-R420	YZSTC	8A-KTF-610-010, AKT-10	680 OHM	PILOT LAMP
CT-RV425	YZSTC	8A-KTB-610-010, AKT-11	680 OHM	LED (BLUE)
CT-R410	YZSTC	8A-KTB-610-010, AKT-11	680 OHM	PILOT LAMP

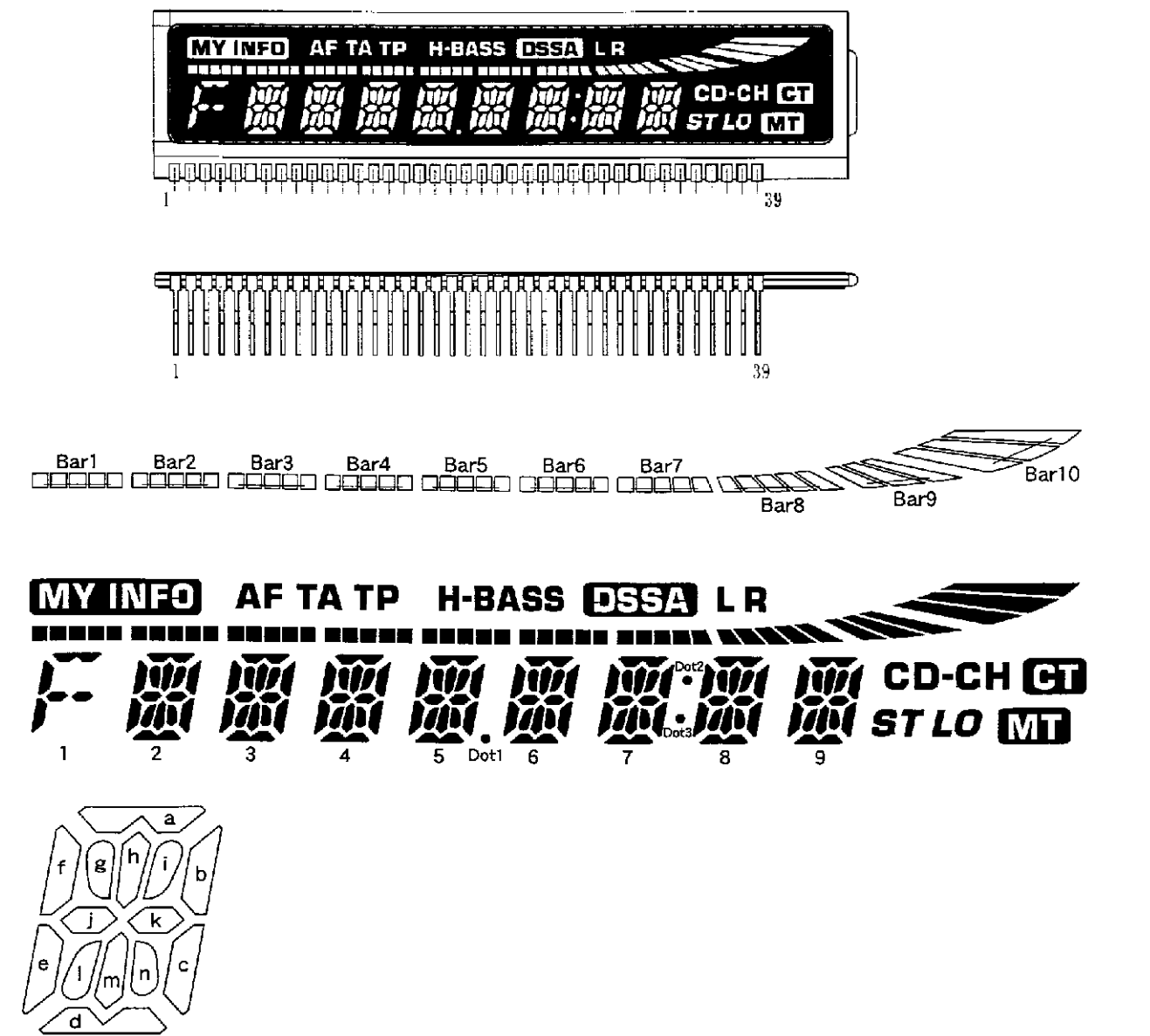


IC DESCRIPTION

IC, μPD178006AGC-538/IC, μPD178018AGC-555

Pin No.	Pin Name	I/O	Description
1	AM/FM S-M	I	AF signal input during RDS AF operation and FM S meter signal input
2	LEVEL-M	I	Level meter signal input
3	A-VOL CONT	I	Detects microphone input for auto volume operation.Pulled down when not used.
4	CD CONNECT	I	CD changer connection check. Pulled down when not used.
5	CD DISP SEL	O	Determines the timing with which data is transferred to the head unit.Open when not used.
6	CD CLO	O	Clock output to CD changer. Open when not used.
7	CD DI	I	Data input from CD changer. Pulled down when not used.
8	CD DO	O	Data output to CD changer. Open when not used.
9	CD CLI	I	Clock input from CD changer. Open when not used.
10	LCD CE	O	LCD DRV (LC75854W) CE output.
11	DFP LAMP	O	Outputs "H" only when FLAP IN (pin 67) is "L".Open when not used.
12	LCD DI	I/O	LCD DRV (LC75854W) data input.
13	LCD DO	O	Open when not used. LCD DRV (LC75854W) data output.
14	LCD CLO	O	LCD DRV (μIPD16432B) clock output. LCD DRV (LC75854W) clock output.
15	CD ACC CONT	O	Transmits the power on/off status of head unit to changer. Open when not used.
16	POWER MUTE	O	Muting output to power amp
17	ST-BY MUTE	O	Standby/muting output to power amp
18	POWER CONT	O	Unit power control output
19	CONT 1	O	LCD DRV power control 1
20	CONT 2	O	LCD DRV power control 2
21	GND	–	Ground for port
22	VDD	–	Power supply for port
23	MUTE	O	Audio muting output
24	BAND CONT	O	AM/FM power switching output. AM:”H”, FM: “L”.
25	RADIO CONT	O	Radio ON/OFF. Power switching output. Radio ON: “H”.
26	RDS MODE	O	Outputs "H" during RDS AF operation. Open when not used.
27	IF REQ	O	Output to request IF count signal.
28	AM IF	I	AM IF count signal input
29	FM IF	I	FM IF count signal input
30	VDD	–	Power supply for PLL
31	FM OSC	I	FM local oscillation input
32	AM OSC	I	AM local oscillation input
33	GND	–	Ground for PLL
34	EO 0	O	Error output from charge pump (for FM)
35	EO 1	O	Error output from charge pump (for AM)
36	GND	–	Ground
37	LOC/DX	O	LOC/DX switching output during radio seek (LOC: "H", DX: "L"). Open when not used.
38	ST IND/SD IN	I	Stop pulse input during FM/AM seek.
39	PHONE MUTE	I	Muting control input -20 dB. Mute: “L”.

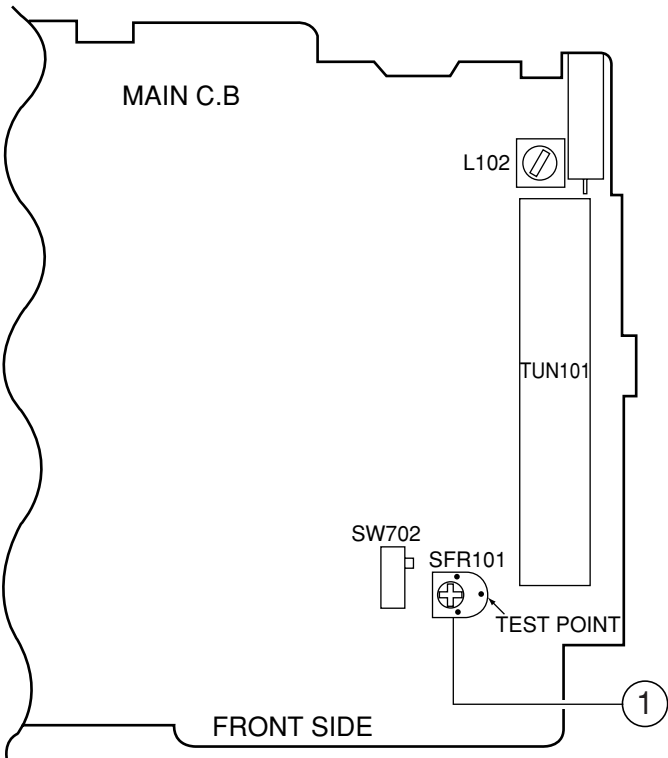
Pin No.	Pin Name	I/O	Description
40	MAIN M CONT	O	Main motor control output
41	SUB M CONT 1	O	Sub motor control output-1.
42	SUB M CONT 2	O	Sub motor control output-2.
43	MODE PL	I	Mode pulse input for tape mechanism.
44	REEL	I	Reel pulse input for tape mechanism.
45	STAND-BY	I	Mechanism Stand-by input
46	F/R HEAD	O	Head FWD/REV select output.
47	MS IN	I	MS signal input (no music: "H", with music: "L"). Pulled when not used
48	LED	O	Security LED flashing output ("H": 120-130 ns, 1 cycle: 3 s)
49	MI-1	I	Diode matrix input for initial setting
50	MI-2		
51	MI-3		
52	MO-1	O	Diode matrix output for initial setting
53	MO-2		
54	MO-3		
55	MO-4		
56	BS CONT	O	MS/BL switching output. Open when not used
57	NR CONT	O	Dolby B NR on/off output. Open when not used
58	MTL CONT	O	Metal tape on/off output. Open when not used
59	BEEP	O	Beep output (3 kHz, 50 ms)
60	RMT IN	I	Remote control input. Pulled up when not used
61	E-VOL CE	O	CE output to electronic VR (LC75374E)
62	E-VOL DO	O	Data output to electronic VR (LC75374E)
63	E-VOL CLO	O	Clock output to electronic VR (LC75374E)
64	DSSA	O	Outputs "H" only when DSSA L/R are operating.
65	RDS DI	I	RDS data inputPulled down when not used.
66	DFP IN	I	Detects whether DFP (front panel) is provided or not.
67	FLAP IN	I	Detects whether flap DFP is open or closed.
68	RDS CLI	I	RDS clock inputPulled down when not used
69	EJECT IN	I	NC (pulled down)
70	ACC IN	I	ACC (accessory power supply) on/off input
71	RE1 IN	I	Rotary encoder input 1.
72	RE2 IN	I	Rotary encoder input 2.
73	PACK IN	I	Tape insertion status detection input
74	REG CPU	–	CPU power regulator
75	GND	–	Ground
76	X-OUT	–	System clock oscillator
77	X-IN	I	System clock oscillator
78	REG OSC	–	Regulator for oscillator circuit
79	VDD	–	Power supply
80	RESET	I	System reset input



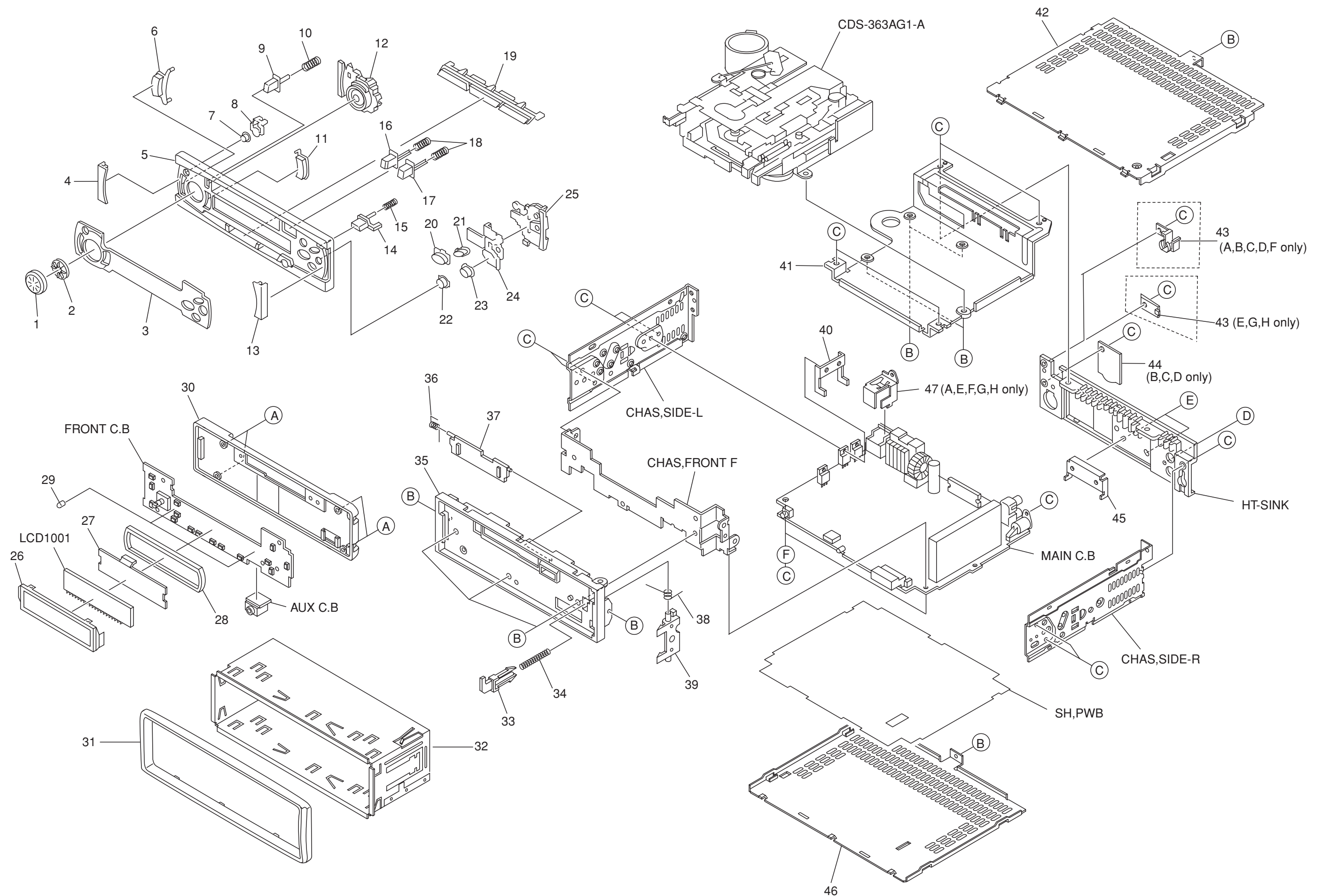
No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
COM1	---	---	---	COM1	MT	TP	AF	2d	2m	2n	Bar2	3d	3m	3n	TA	4d	4m
COM2	---	---	COM2	---	LO	R	DSSA	2e	2l	2k	2c	3e	3l	3k	3c	4e	4l
COM3	---	COM3	---	---	CD-CH	Bar10	Bar9	2f	2j	2i	2b	3f	3j	3i	3b	4f	4j
COM4	COM4	---	---	---	CT	MY INFO	Bar1	1a,e,f,j,k	2g	2h	2a	Bar3	3g	3h	3a	Bar4	4g

No	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
COM1	4n	H-BASS	5d	5m	5n	Dot1	6d	6m	6n	L	7d	7m	7n	Dot3	8d	8m	8n
COM2	4k	4c	5e	5l	5k	5c	6e	6l	6k	6c	7e	7l	7k	7c	8e	8l	8k
COM3	4i	4b	5f	5j	5i	5b	6f	6j	6i	6b	7f	7j	7i	7b	8f	8j	8i
COM4	4h	4a	Bar5	5g	5h	5a	Bar6	6g	6h	6a	Dot2	7g	7h	7a	Bar7	8g	8h

No	35	36	37	38	39
COM1	---	9d	9m	9n	ST
COM2	8c	9e	9l	9k	9c
COM3	8b	9f	9j	9i	9b
COM4	8a	Bar8	9g	9h	9a



1. RDS Voltage Adjustment
- Settings:
- Test point: Center pin of SFR101
 - Adjustment location: SFR101
- Method: Set AM/FM Signal generation to 98 MHz, 30 dBV and adjust SFR101 so that the output becomes 2.0 V \pm 0.05 V.



MECHANICAL MAIN PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

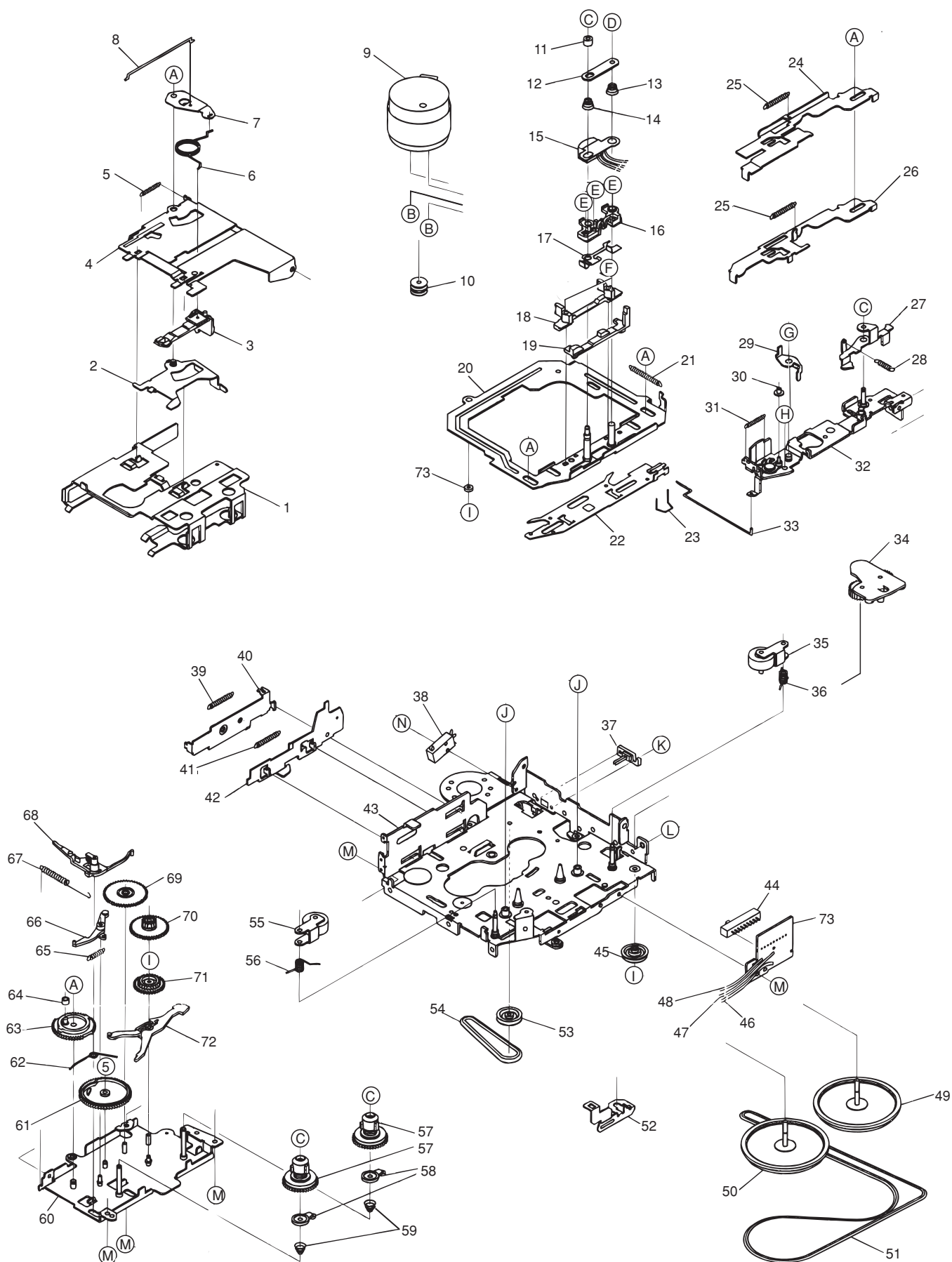
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-KTF-020-010		KNOB,RTRY NON RUBBER	27	8A-KTF-208-010		LENS,LCD F<EXCEPT D>
2	8A-KT5-021-010		RING,RTRY A	28	8A-KTB-201-010		CASE,LCD B<D>
3	8A-KTF-007-010		WINDOW,LCD F<E>	28	8A-KTF-207-010		CASE,LCD F<EXCEPT D>
3	8A-KTB-007-010		WINDOW,LCD R410	29	8Z-KTG-207-010		CAP,LAMP BLU B2*4 ALC<EXCEPT B,D>
3	8A-KTB-001-010		WINDOW,LCD R420<C>	29	8Z-KTG-209-010		CAP,LAMP ORN
3	8A-KTA-001-010		WINDOW,LCD R430M<A>	30	8A-KTF-002-010		CABI,REAR F
3	8A-KTB-002-010		WINDOW,LCD RV425<D>	31	8A-KTF-003-010		CABI,TRIM F
3	8A-KTF-008-010		WINDOW,LCD X4300M<H>	32	8Z-KT1-231-010		HLDR,HALF -T
3	8A-KTF-009-010		WINDOW,LCD X430M 40W<F,G>	33	8Z-KTA-203-010		LEVER,DFP LOCK -T10
4	8A-KTF-004-010		WINDOW,L F<EXCEPT B>	34	8Z-KTA-221-010		SPR-C,DETACH LOCK-T10
4	8A-KTB-006-010		WINDOW,L B	35	8A-KTF-014-010		CABI,BASE F
5	8A-KTF-001-010		CABI,FRONT F	36	8Z-KT1-244-010		SPR-T,DOOR Z
6	8A-KTF-013-010		BTN,FNC F	37	8Z-KT1-023-110		DOOR,CASS
7	8A-KT5-012-010		BTN,PWR	38	8Z-KTA-222-010		SPR-T,DETACH LOCK-T10
8	8A-KT5-210-010		HLDR,BTN MU	39	8Z-KTA-204-110		LEVER,DEF HOOK -T10
9	8A-KTF-010-010		BTN,EJECT F	40	8A-KT5-204-010		HLDR,TR
10	8Z-KTF-010-010		BTN,EJECT F	41	8A-KTF-202-010		HLDR,DECK F
11	8A-KT5-017-010		BTN,UP/DN<E,F,G,H>	42	8Z-KT1-211-010		COVER, TOP -T
11	8A-KTG-003-010		BTN,UP/DN G<A,B,C,D>	43	8Z-KT5-201-010		COVER, ISO BLIND -T<E,G,H>
12	8A-KTB-205-010		LENS,ENCO B	43	8Z-KT1-257-010		HLDR,ISO-WIRE -T<A,F>
12	8A-KTF-205-010		LENS,ENCO F<EXCEPT B>	43	8A-KT5-219-010		HLDR,ISO-WIRE 5<B,C,D>
13	8A-KTB-005-010		WINDOW,R B	44	8Z-KT4-201-010		COVER, CD BLIND -T<B,C,D>
13	8A-KTF-005-010		WINDOW,R F<EXCEPT B>	45	8A-KTF-201-010		HLDR,IC F
14	8A-KTF-015-010		BTN,DETACH	46	8Z-KT1-212-010		COVER, BOTTOM -T
15	8Z-KTA-223-010		SPR-C,RELEASE -T10	47	8A-KT5-216-010		HLDR,DIN 13P<A,E,F,G,H>
16	8A-KTF-012-010		BTN,REW F	A	8Z-KT1-253-010		S-SCREW,PT 2*8 BH+ BLK
17	8A-KTF-011-010		BTN,FF F	B	88-KT1-250-010		S-SCREW,THIN HEAD+2.6-4 BLK
18	87-KTE-205-010		SPR-C,EJ/FF/REW	C	87-251-073-410		SCREW,U+2.6-6
19	8A-KTG-004-010		BTN,P.SET G	D	87-B10-259-010		UT2+3.0-10.0 W/O SLOT (BH TAP)
20	8A-KT5-013-010		BTN,DISP	E	87-251-097-410		U+3-12
21	8A-KT5-014-010		BTN,A/M	F	87-432-903-010		WASHER,WTE 2.6
22	8A-KT5-016-010		BTN,INFO<E,F,G,H>				
22	8A-KT1-003-010		BTN,TA<A,B,C,D>				
23	8A-KT1-004-010		BTN,AF<A,B,C,D>				
23	8A-KT5-015-010		BTN,LO<E,F,G,H>				
24	8A-KT5-211-010		HLDR,BTN DISP				
25	8A-KTF-206-010		LENS,R F				
26	8A-KTF-204-010		HLDR,LCD F<EXCEPT D>				
26	8A-KTB-203-010		HLDR,LCD B<D>				
27	8A-KTB-202-010		LENS,LCD B<D>				

TYPE	MODEL NAME	SUFFIX
A	CT-R430M	YZ
B	CT-R410	YZ
C	CT-R420	YZ
D	CT-RV425	YZ
E	CT-X430M	YU
F	CT-X430M	YZ
G	CT-X430M	YH
H	CT-X4300M	YL

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

MECHANISM EXPLODED VIEW 1/1



MECHANISM MAIN PARTS LIST 1/1

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	S1-013-810-100		HOLDER CASS(X)	49	S1-036-360-100		FLYWHEEL ASSY(F) CPL
2	SX-003-610-190		EJECT CAM LOCK ASSY	50	S1-036-360-110		FLYWHEEL ASSY(R) CPL
3	S1-003-220-070		TAPE HOOKER	51	S1-003-650-040		BELT MAIN
4	S1-013-810-020		HANGER CASS(X)	52	S1-003-610-260		ARM FR(B)
5	S1-003-640-070		EJECT CAM LOCK SPG	53	S1-036-320-030		GEAR PULLEY
6	S1-003-640-230		CENTER PLATE SPG(B)	54	S1-036-350-010		BELT SUB
7	S1-003-610-180		PLATE CENTER	55	SX-036-360-040		PINCH ARM ASSY(R)
8	S1-036-350-070		RETURN LINK	56	S1-036-340-040		PINCH ARM(R)
9	S1-003-670-570		MOTOR	57	SX-036-320-050		REEL SPINDLE ASSY
10	S1-036-330-420		MOTOR PULLEY(MBC)	58	SX-036-360-060		DETECTOR CAM ASSY(V)
11	S1-003-630-320		ROLLER FF(A)	59	S1-013-840-010		BACK TENSION SPG
12	S1-003-610-150		PLATE SPG SUPPORT	60	SX-036-360-010		REEL BASE ASSY
13	S1-003-640-100		ADJUSTER ARM SPG(A)	61	S1-003-620-140		GEAR DETECTR
14	S1-003-640-110		ADJUSTER ARM SPG(B)	62	S1-003-640-150		DASH SPG
15	S1-036-370-040		HEAD	63	S1-003-620-100		GEAR SELECTOR
16	S1-013-820-053		ADJUSTER ARM BLUE	64	S1-003-630-180		COLLER(SELECTOR GEAR)
17	S1-013-810-060		ADJUSTER SHIM(X)	65	S1-003-640-030		GEAR LOCK ARM SPG
18	S1-003-820-180		GUIDE TAPE	66	S1-003-820-140		GEAR LOCK ARM
19	S1-036-320-060		LINK ADJUSTER(B)	67	S1-003-840-140		RATCHET SPG
20	SX-036-310-020		HEAD PLATE ASSY	68	S1-003-620-070		RATCHET
21	S1-003-640-060		PLATE SPG HEAD	70	S1-003-620-040		GEAR REDUCTION(A)
22	SX-036-310-040		FR CONVRT ARM ASSY(A)	71	S1-003-620-010		GEAR IDLE
23	S1-003-640-170		SW SELECT ARM SPG	72	S1-003-620-090		ARM SENSOR
24	S1-003-610-510		LEVER FF(AT)	73	S1-036-330-070		ROLLER HP(A)
25	S1-003-640-010		LEVER SPG FF/REW	A	S2-171-200-501		E-RING 2
26	S1-003-610-530		LEVER REW(AT)	B	S2-103-200-25C		SCREW,M2-2.5
27	S1-003-610-290		ARM LOCK(A)	C	S1-003-650-240		PSW(REEL)B 1.5-3.2-0.25
28	S1-003-640-020		LEVER SPG LOCK	D	S2-101-200-40C		SCREW,M2-4
29	S1-003-610-230		LEVER CHANG(B)	E	S1-013-850-020		SCREW,M2-5
30	S1-036-330-110		ROLLER PROGRAM	F	S2-103-200-70C		SCREW,M2-7
31	S1-003-640-080		ARM SPG PROGRAM	G	S2-171-250-601		E-RING 2.5
32	SX-036-360-020		LEVER BRACKET ASSY	H	S2-133-200-40C		SCREW,S-TYPE M2-4
33	S1-036-350-030		SELECTOR LINK(B)	I	S2-181-200-30D		PSW-S 1.2-3.0-0.25
34	SX-036-360-030		TU GEAR ARM ASSY	J	S2-181-600-32E		LMW-S 1.6-3.2-0.35
35	SX-036-360-050		PINCH ARM ASSY(F)	K	S2-133-170-40C		SCREW,S-TYPE M1.7-4
36	S1-036-340-030		PINCH ARM SPG(F)	M	S2-138-200-30C		SCREW,B-TYPE M2-3
37	S1-036-370-010		SW,MUTE	N	S2-133-170-60C		SCREW,S-TYPE M1.7-6
38	S1-036-370-050		SW POWER				
39	S1-003-620-030		GEAR REDUCTION(B)				
39	S1-036-340-050		LEVER SPG EJECT				
40	S1-003-610-070		LEVER EJECT				
42	S1-036-310-030		CAM EJECT				
42	S1-036-340-060		CAM SPG EJECT				
44	S1-036-370-020		SW,SLLLLLIDE				
45	S1-005-820-215		IDLE PULLEY(A)				

